

**U.S. EPA's State and Local Climate and Energy Webcast Series
Presents:**

**Communicating the Connection between
Climate Change and Heat Health**

Telephone call-in number: (855) 210-5748

Conference ID: 65722429

We will start in a few minutes. Thank you for joining us.



**State and Local
Climate and Energy Program**





**State and Local
Climate and Energy Program**

Communicating the Connection between Climate Change and Heat Health

July 22, 2015

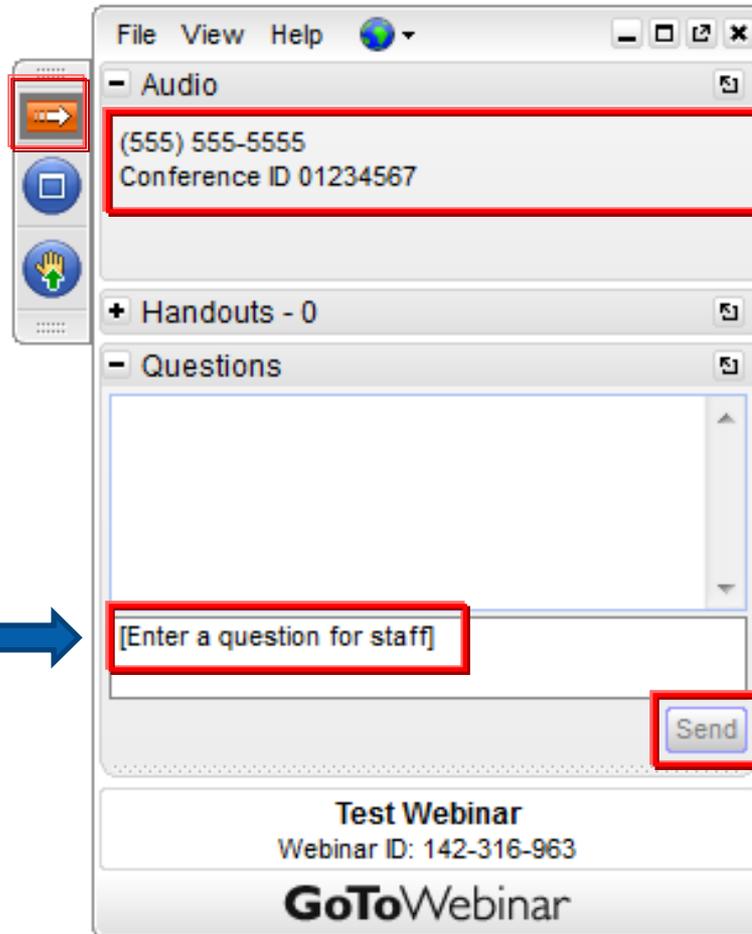
2:00 PM – 3:30 PM (EST)

Telephone call-in number: (855) 210-5748

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How to Participate Today

Open and close
your control
panel



Audio is only
available by
telephone

Dial: (855) 210-5748
Conf. ID: 65722429



Participants are on mute
Type in your questions
and indicate the
speakers



Hit "send"
to submit your
questions



If you experience technical difficulties, please contact
Wendy Jaglom at: Wendy.Jaglom@icfi.com

Webcast Agenda



- **Welcome and Introduction**
Victoria Ludwig, U.S. EPA State and Local Climate and Energy Program
- **Public Understanding of the Health Impacts of Climate Change**
Connie Roser-Renouf, George Mason University Center for Climate Change Communication
- **Engaging Your Audience**
Surili Patel, American Public Health Association
- **Preparing for Heat: MN Climate & Health Program Activities**
Kristin Raab, Minnesota Department of Public Health
- **Q&A Session, Optional Feedback**

Files and audio recordings of today's webcast will be available at:
www.epa.gov/statelocalclimate/web-podcasts/index.html

U.S. EPA's State and Local Climate and Energy Program



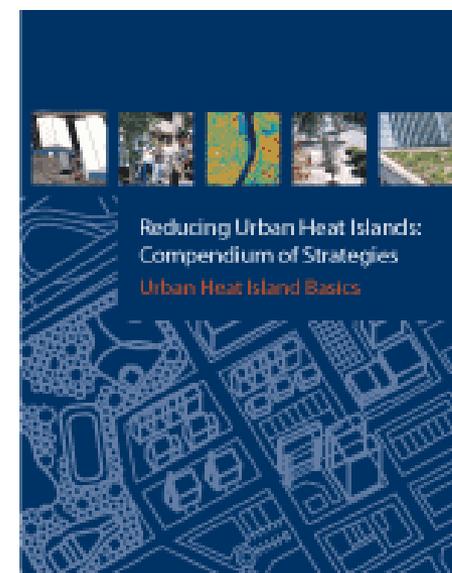
Resources to help local governments reduce GHGs, build resiliency, and protect public health

- Climate Showcase Communities
 - 50 models of local climate change action
 - Case studies, templates, and other resources to support replication
- Key Guidance and Tools
 - ★ **Local Climate Action Framework**
Step-by-step guidance on how to plan, implement, and evaluate programs
 - Local Government Climate and Energy Strategy Series
Documents on EE, RE, transportation, waste management, and community design topics
 - Local Greenhouse Gas Inventory Tool
 - Newsletter updates on new funding opportunities, tools, and events
 - Access to other federal technical support programs
- Peer Exchanges
 - Local Climate and Energy Webcast Series on mitigation and adaptation topics

EPA's Heat Island Program



- **Compendium of Strategies**
 - Heat Island Basics
 - Implementation guidance and examples
- **Website** with calendar of events, newsroom, science corner
- **Database** of 75+ local and statewide initiatives
- **Webcasts**
 - Summer 2015 series will cover heat health
- **Newsletter**



All available at: epa.gov/heatisland

Two-part webcast series

Part 1: Communicating the Connection between Climate Change and Heat Health

Part 2: Improving Heat Health Resilience through Urban Infrastructure Planning and Design

August 19, 2015, 2:00-3:30 PM (EDT)

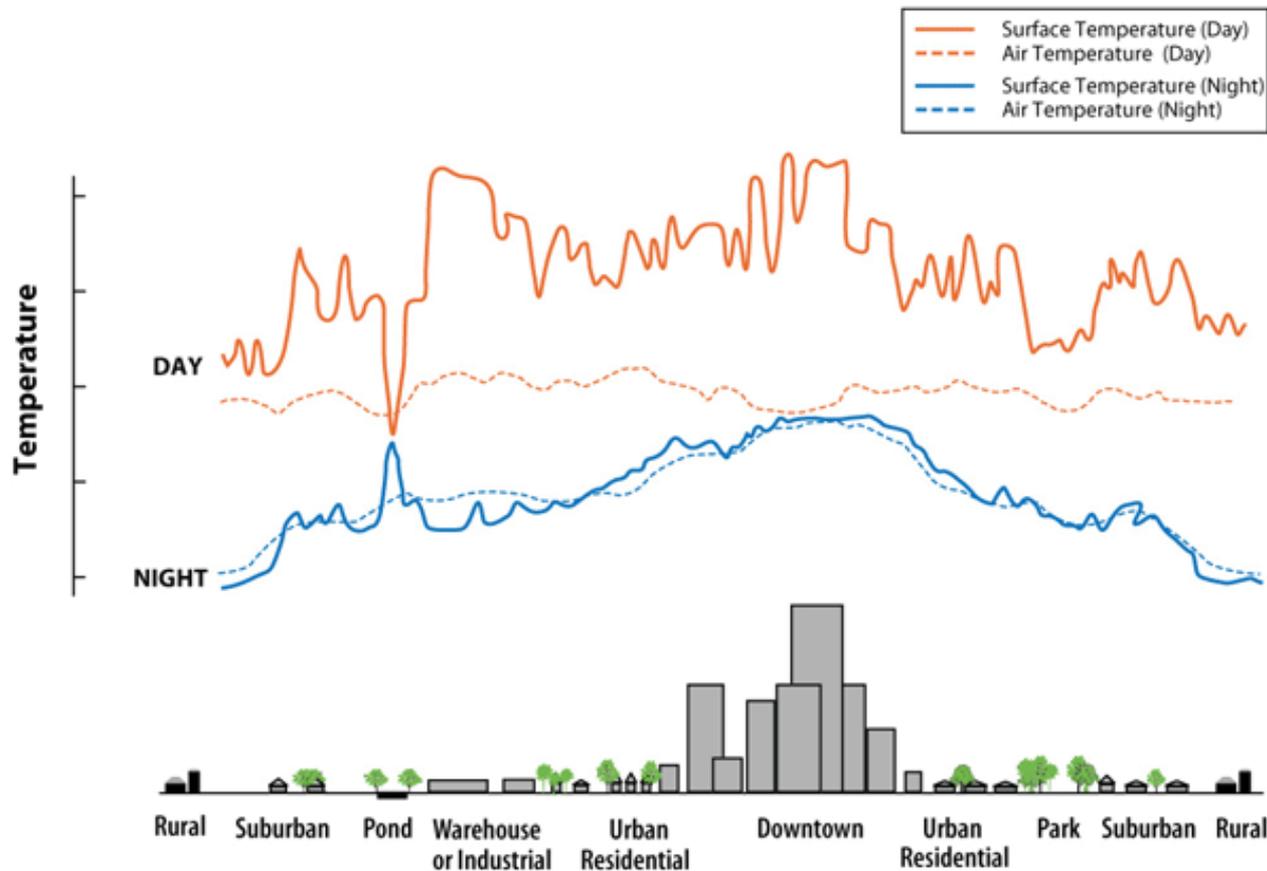
Register at:

<https://attendee.gotowebinar.com/register/2724605574702567426>

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What is the Heat Island Effect?

- Micro-scale temperature differences between urban and rural areas
- Urban areas can be 2 – 22 ° F higher than rural areas



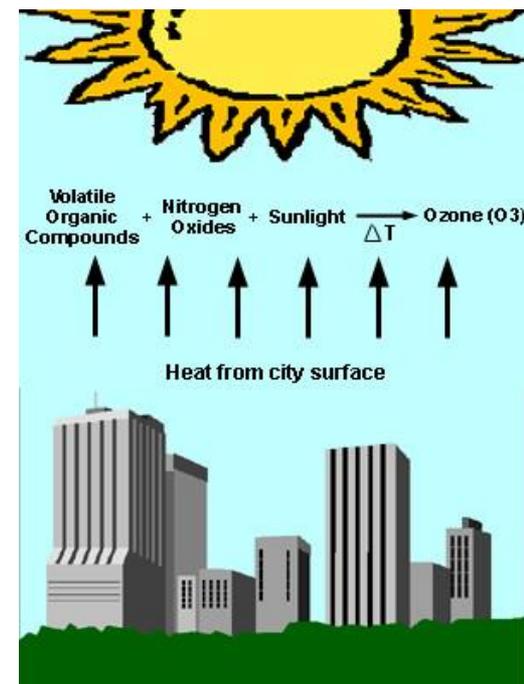
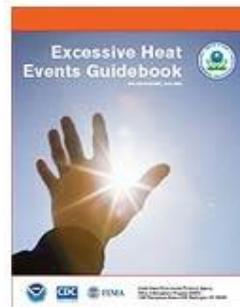
What Causes the Heat Island to Form?

- **Reduced vegetation**
- **Materials used to build urban infrastructure**
- **Urban geometry**
- **Generation of waste heat (e.g., air conditioners, engines)**



Heat Island Impacts

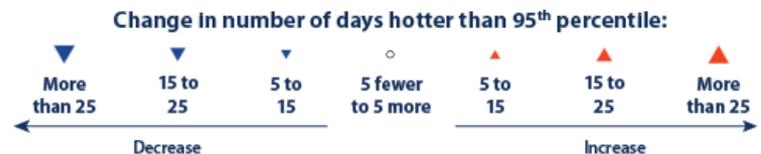
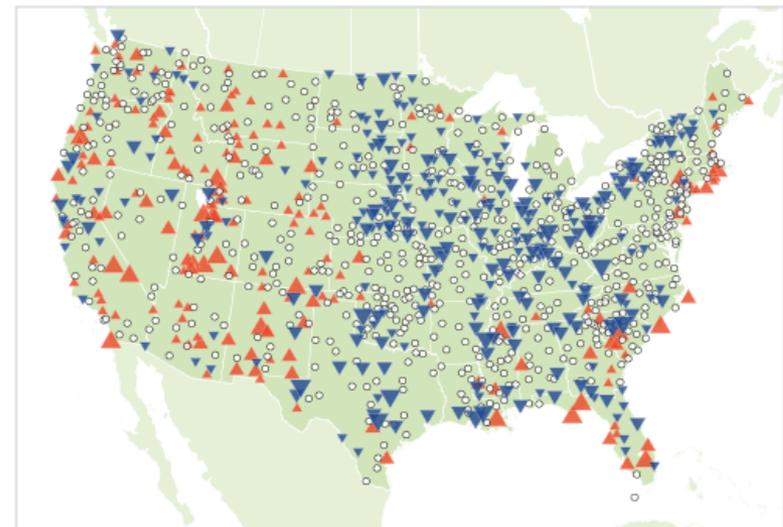
- **Increased energy use**
 - More pressure on the grid
- **Air quality and greenhouse gas (GHG) emissions**
 - Higher GHG emissions
 - Increased air pollution
 - More ground-level ozone formation
- **Water quality**
 - More and warmer water runoff
- **Human health**
 - Respiratory difficulties
 - Heat cramps, heat exhaustion
 - Non-fatal heat stroke/sun stroke
 - Heat-related mortality



Heat Islands and Health

- Heat island effect exacerbates the impact of heat waves
- Extreme heat causes more deaths each year than hurricanes, lightning, tornadoes, and earthquakes combined
- Climate models project increases in the frequency, intensity, and duration of extreme heat events in the decades ahead

Figure 4. Change in Unusually Hot Temperatures in the Contiguous 48 States, 1948–2013



Working Together



- **Public health and environmental communities have similar goals to protect human health**
- **Both are concerned about the impact of climate change on health**
- **Heat health is a tangible impact of climate change that is occurring today and is project to worsen in the future**
- **Therefore, there is a significant opportunity to work together to raise awareness of heat health issues and promote action, especially through communication efforts**

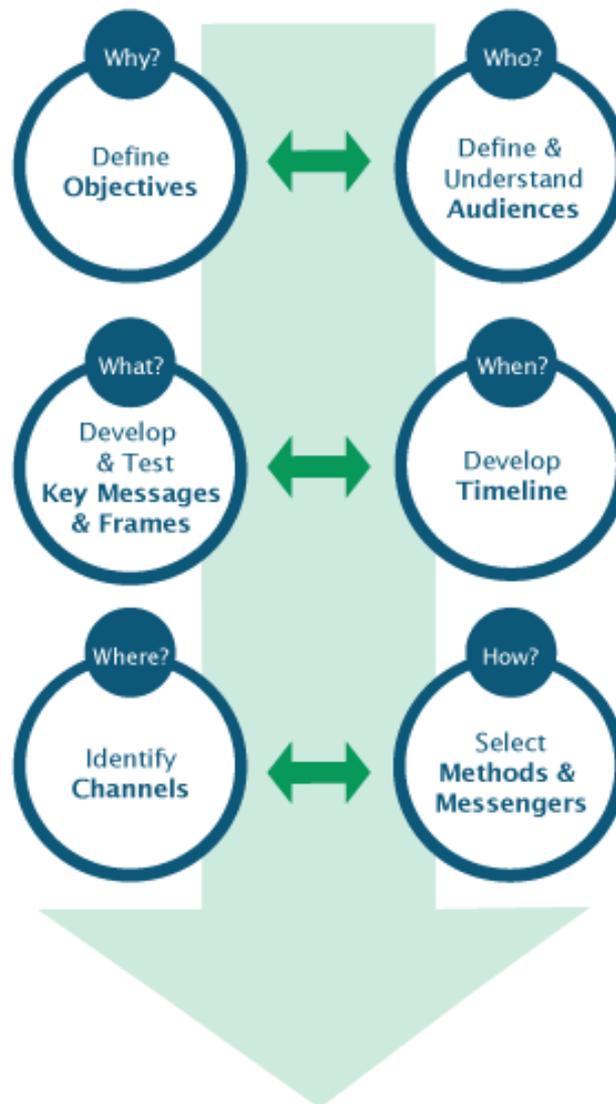
Local Climate Action Framework: A Step-by-Step Implementation Guide



- Series of webpages that provide **step-by-step guidance** for local governments to plan, implement, and evaluate climate, energy, and sustainability projects and programs to **reduce greenhouse gas emissions** and **adapt to climate change impacts**
- Each Phase Includes:
 - Key Steps
 - Questions to Consider
 - Tools & Templates
 - Case Studies
 - Further Reading



Reach Out and Communicate



Contact Information



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State and Local Climate and Energy Program

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Websites: epa.gov/statelocalclimate
epa.gov/heatisland

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